

• 2020 Research Grant, Young Investigator Award & Human Factors/Education Grant Intent Application

• NRP Research Grant, Young Investigator Award & Human Factors/Education Grant Priorities for 2020

- Researchers from Canadian and US Institutions are invited to apply for NRP the Neonatal Resuscitation Program (NRP) Research and Human Factors/Educational grants to investigate the best ways to optimize care in the delivery room using NRP.

Initiatives can include addressing gaps in our understanding of transitional physiology and evidence-based resuscitation practice, teaching and evaluating the cognitive, technical and behavioral skills necessary for successful resuscitation of the newborn and retention of skills and knowledge over time.

NRP Human Factors or Education Grant (up to \$15,000): Any health care professional with an interest in human factors impact on delivery room resuscitation or optimization of NRP education.

NRP Young Investigator Award (up to \$15,000): Physicians-in-training or individuals within four years of completing fellowship training.

NRP Research Grant Program (up to \$50,000): Any health care professional with an interest in Neonatal Resuscitation.

Applicants can apply for either a Research Grant, Young Investigator Award or Human Factors/Education Grant, not more than one.

Please note the NRP Research Grant Program should not be considered as a source of funding for implementation and dissemination of the Helping Babies Breathe Program.

NRP Human Factors or Education Grant

Any health care professional with an interest in human factors impact on delivery room resuscitation or optimization of NRP education is encouraged to submit a proposal for up to \$15,000 for an NRP Human Factors or Education Grant.

The NRP Steering Committee recognizes that human factors and educational science research is difficult to complete in a scientifically rigorous manner. Therefore, the NRP Steering Committee is committed to providing feedback and guidance on any submitted proposals. Additionally, the primary investigator must show strong institutional support and mentorship to be considered for the full grant application.

Top Initiative:

What are the best ways to optimize care in the delivery room using NRP? Initiatives can include teaching and evaluating the cognitive, technical and behavioral skills necessary for successful resuscitation of the newborn and retention of skills and knowledge over time.

Topic: Optimization of NRP Education

Questions of interest

- What is the best method for teaching specific NRP skills? Do different educational methodologies improve acquisition and application of NRP?
- What type of refresher sessions lead to better retention of NRP skills?
- Does just-in-time training improve delivery of NRP skills?
- If providers who perform neonatal resuscitation are trained in the NRP, are survival rates and post-resuscitation outcomes improved?
- Does use of simulation and debriefing techniques for teaching/ reviewing NRP skills improve teamwork? Competency in resuscitation?
- Does use of video recording for reviewing and debriefing resuscitation improve teamwork? Competency in resuscitation?
- Does team training improve resuscitation performance and patient survival rates/improved outcomes?
- Do performance scores after simulation predict performance scores achieved in actual resuscitations?
- What elements of team and individual performance are most critical in ensuring optimal patient outcomes?
- Are teletechniques useful for teaching NRP?
- Is telemedicine a useful tool for mentoring NRP Instructor Candidates?

Topic: Human factors impact on delivery room resuscitation

Questions of interest

- What features facilitate rapid and correct assimilation and interpretation of physiologic data streaming from patient monitors used during resuscitation?
- What are optimal delivery room physical features or set-up to enhance individual and team situational awareness?
- Does the use of scripts, technology, coaches, or "readers" improve compliance with NRP algorithm steps?
- What is the ideal team composition for the most effective resuscitation?
- How can documentation be improved for greater accuracy?
- Are pre-briefings and debriefings useful for improving individual and team performance?

For background information or references to the science of NRP, please see: Copublishing of the Pediatric and Neonatal Portions of the 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations and the 2015 American Heart Association Guidelines Update for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Pediatrics* 2015;136;S83; originally published online October 14, 2015;DOI: 10.1542/peds.2015-3373B

Perlman, J., Kattwinkel, J., Wyllie, J., Guinsburg, R., & Velaphi, S. (2012). Neonatal resuscitation: In pursuit of evidence gaps in knowledge. *Resuscitation*, 83(5), 545-550. doi:10.1016/j.resuscitation.2012.01.003

- **Application Procedures**

Potential applicants for the Human Factors/Education Grant must submit an intent for application to the NRP Steering Committee by **Tuesday, May 5, 2020**.

The intents will be reviewed and the committee will ask a select group to submit full proposals. Those selected will receive a full application from the AAP Division of Life Support Programs on or before **June 5, 2020**.

Completed full applications must be received by the AAP Division of Life Support Programs on or before **August 21, 2020**. Applicants will be informed of the decision regarding their application by **December 18, 2020**. Funds will be distributed in 2021.

Applicants can apply for either a Research Grant, Young Investigator Award or Human Factors/Education Grant, not more than one.

Eligibility

Any health care professional from a U.S. or Canadian medical institution is invited to apply for the NRP Human Factors/Education Grant. Submissions including investigators practicing in countries other than the U.S. or Canada must demonstrate a substantive role of the U.S. or Canadian investigator(s) in the research process. Moreover, projects which are to be conducted outside of the U.S. or Canada must have approval of a U.S. or Canadian Institutional Review Board (IRB). All investigations should follow the intellectual property guidelines of standard academic journals (eg, *Pediatrics*).

Please note that all funds will be awarded to the applicant's institution.

Budget Guidelines

Requests can include costs for supplies, minor equipment, and salaries for support personnel. Funds are not to be used for faculty salaries (including the primary investigator's) or indirect costs. Time and efforts of physician trainees or technical support can be included in the budget; however, the requested expense for their time must be clearly justified. Travel reimbursement is limited to local travel for research purposes and travel to locations with pertinent resources for the proposed study. IRB fees up to \$1,000 may be included in the budget.

NRP Human Factors/Educational grants applications should not exceed \$15,000 (US Dollars).

Funding is for one year; however, a non-funded extension up to one year may be requested. All recipients are asked to provide publication information and updates for two years following study completion.

- [Click for printable HFE Grant Priorities](#)

NRP Human Factors/Education Grant Intent

- **Completed *Intent for Application* forms must be received by **Tuesday, May 5, 2020**. The form should be accompanied by a one-page abstract of the proposed study and a curriculum vita (no longer than three pages).**

- Principal Investigator's Name *

First Name Last Name Suffix

- Principal Investigator's Position/Title *
- Principal Investigator's Degree(s) *
- Is the Principal Investigator a Fellow of the American Academy of Pediatrics (FAAP)?
 Yes No
- Principal Investigator's Institution *
- Principal Investigator's Mailing Address *

- Principal Investigator's E-mail *
example@example.com
- Principal Investigator's Phone Number *
-Area Code Phone Number
- Title of Project *
- Amount of Grant Request *
- Please attach your abstract (not to exceed one typewritten single-spaced page) *
- Please include a timeline for your project such as a Gantt Chart *
- [Gantt chart example](#)
- Please attach a CV or biographic sketch for the primary investigator (not to exceed three typewritten single-spaced pages) *
- Please include a list of team members supporting this project with 3 - 5 sentences per person describing their experience relevant to the project *
- Please include any relevant mentorship or experience that will support your research *
- Please attach a Letter of Support from department chair or supervisor assuring approval of the planned study *
- Supervisor or Department Chair's Name and Position/Title *
- Additional letters of support (optional)
- Submit Form
- ***Please note the NRP Grant Program should not be considered as a source of funding for implementation and dissemination of the Helping Babies Survive Program.***

- **If you have any questions about the 2020 Research Grant, Young Investigator Award & Education Grant Program, please contact the AAP Division of Life Support Programs staff at 630-626-6798 or e-mail: lifesupport@aap.org.**